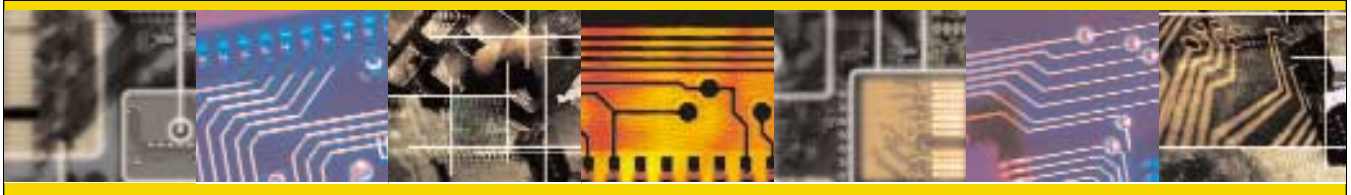


# ECM-S2

Welcome to American Arium's state-of-the-art family of in-target probes (ITPs). The ECM-S2 is just one of Arium's exceptional hardware-assisted debug solutions for BIOS, device drivers, OS kernels, and embedded applications. Developed specifically for use with Intel P6-class processors, including Intel Celeron®, Pentium® II/III, and Pentium® II/III Xeon™ processors, this ITP features outstanding run control functionality for superior visibility to and manipulation of your code.

**To improve your time to market, count on the ECM-S2.**



## Key Features

### Supported toolchains:

- Wind River® Tornado® II C/C++
- Microsoft® Visual C/C++® V6/V7
- Borland® C
- CAD-UL® C
- GNU C/C++
- Metaware® C

### Breakpoint types:

- 4 debug register
- 64 software
- SMM entry/exit
- Reset
- BNC external trigger in/out

### Source code/symbolic debug:

- Boot-loadable OMF-386
- DWARF2
- Intel Textsym
- Codeview
- a.out/Stabs

### Download formats:

- BIN
- OMF-386
- ELF32
- DOS EXE
- Intel Hex
- PE32/PE32+

### Address translation options:

- Real
- Virtual-86
- BigReal
- Protected



ECM-S2 with PBD-S2V

- System Management Mode (SMM)

### Register types:

- 386
- System
- Control
- Debug
- MSRs
- Floating point
- MMX™ technology
- SSE

### Connection options:

- Serial

### Other important features:

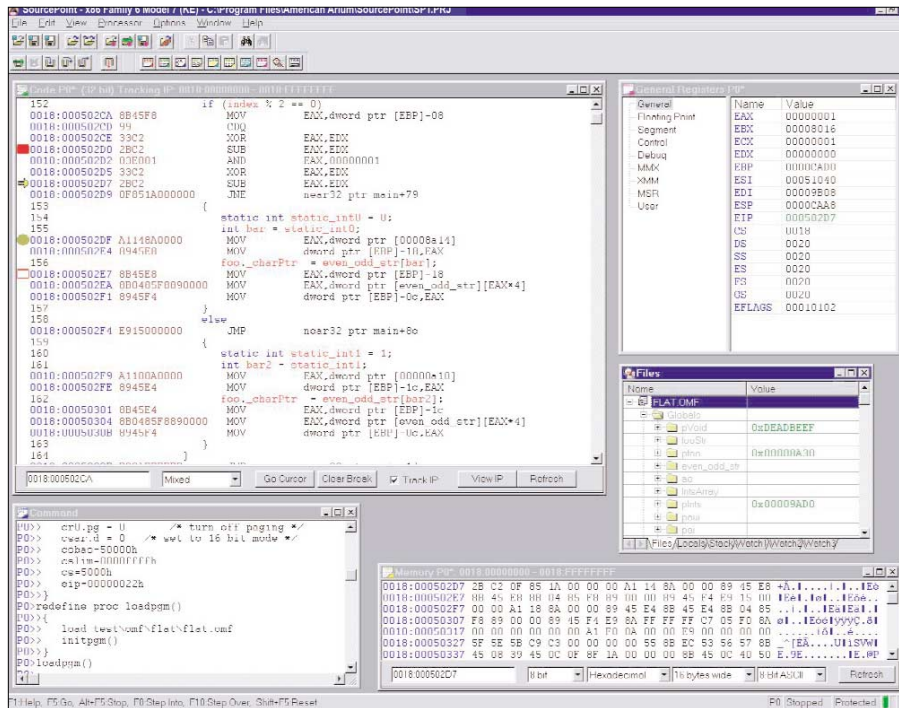
- Real time operation
- Multi-processor (SMP) support
- In-line assembly
- Robust scripting language
- Code/data search and replace
- Self-diagnostic test suite

## Key Benefits

- **Powerful** - Arium probes and emulators are the only debug tools that allow you to debug hardware and software directly out of system reset.
- **Reliable** - The ECM-S2 is one of the most reliable ITPs on the market today.
- **Flexible** - The ECM-S2 offers a number of firmware- and software-related and customizable options to provide you with the type of debug environment that best meets your needs.
- **Suitable** - The ECM-S2, with its companion SourcePoint interface, provides a highly integrated, intuitive tool designed with your needs in mind.
- **Upgradable** - Many of Arium's base units can be used with newly announced Intel processors and upgraded to our full-featured trace products.
- **Supportable** - All Arium units produced for the IA-32 and IA-64 market are fully supported by our highly trained staff, including legacy products.



# ECM-S2



## SourcePoint Interface

Included with the ECM-S2 is American Arium's SourcePoint debugging software. The debugger interface is part of the company's core technology, developed specifically for high-end Intel Architecture (IA) design and debug. The 32-bit application runs on Microsoft® Windows® 95/98/ME/NT/2000/XP.

SourcePoint is used with all American Arium probes and emulators. Because we designed and developed the software specifically for the equipment, the tight integration of the hardware and software gives you one of the most robust debug interfaces on the market. Easy to install and use, SourcePoint has IA-32- and IA-64-specific features that cannot be found in any other debugger. Multi-processor control, complex breakpoints, source-level visibility, and other key features all add up to make SourcePoint the most powerful tool in the industry today.

## PC Host Requirements

- PC host (Intel Pentium processor or higher)
- Microsoft Windows 95B/98/ME/NT 4.0 (SP4 or later)/2000
- SVGA monitor (1024 x 768 or higher)
- 20 MB hard disk space, 16 MB RAM

## Specifications

### Environmental

32-90° F (0-31° C)  
Maximum humidity - 85%

### Communications

115KBaud RS-232, LAN/WAN (optional)

### Dimensions (in/cm)

(H) 2.25/5.7  
(W) 6.2/15.7  
(L) 9.6/24.4

## Ordering Information

### Standard

Includes in-target probe base unit, PBD-S2V personality board, appropriate cables, power supply, SourcePoint software, documentation, and one year service agreement.

### Options

#### TAP adapters:

- TAP-S1** Intel Pentium II/III processor TAP adapter (Slot 1, 66/100/133 MHz FSB)
- TAP-S2** Intel Pentium II/III Xeon processor TAP adapter (Slot 2, 66/100/133 MHz FSB)
- TAP-B2** Intel Mobile Pentium III, Celeron processor TAP adapter (uPGA2)
- TAP-TU** Intel Pentium III (including the 1.13A-120+ GHz on 0.13 micron process), Celeron processor TAP adapter (370-pin PGA)
- TAP-MT** Intel Mobile Pentium III Processor-M TAP adapter (uFCPGA)

#### Other:

- WDB-SRVR** Remote software module plug-in
- STAR-1** Extended service agreement

## The Company

*American Arium has been the primary market supplier of Pentium processor hardware-assisted debug tools since 1992. The company supports Intel Itanium™, Xeon™, Pentium® 4, Pentium II/III, Pentium II/III Xeon, Celeron™, Mobile Pentium II/III, and Pentium processors.*

*American Arium's mission is to meet and exceed the needs of hardware and software developers by providing them with the right tools to help them minimize their debug cycle.*

**It's Hard to Compete  
Without the Right Tools**

